



**GULF STATES UTILITIES COMPANY**

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April 22, 1985  
RBG- 20791  
File No. G9.5, G9.8.6.2

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Denton:

River Bend Station-Unit 1  
Docket No. 50-458

Enclosed for your review are the Gulf States Utilities Company (GSU) responses to Items 8 and 16 of the Request for Additional Information (RAI) regarding the Transamerica Delaval, Inc. (TDI) Diesel Generators at River Bend Station (RBS) submitted to Mr. W. J. Cahill (GSU) from Mr. A. Schwencer (Nuclear Regulatory Commission-NRC) on December 29, 1983. These responses (see Attachment 1) revise the ones provided in the letter from Mr. J. E. Booker (GSU) to Mr. H. R. Denton (NRC) dated April 11, 1985 (GSU Letter No. RBG-20685) and completely address all items in the afore-referenced RAI.

Sincerely,

J. E. Booker  
Manager-Engineering,  
Nuclear Fuels & Licensing  
River Bend Nuclear Group

*WJR*  
JEB/WJR/JWL/kt

Attachment (1)

Enclosures (3)

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ATTACHMENT  
1

REVISION TO  
RBG-20685  
DATED 4/11/85

- E. Hydro tests on DC fuel oil pumps
  - F. Hydro tests on AC lube oil pumps
  - G. Hydro tests on cooling water/lube oil heat exchangers
  - H. Hydro tests on two starting air receiver tanks. Vendors failure to notify Procurement Quality Assurance (PQA - a SWEC organization) on the remaining six air receiver tanks was accepted on Nonconformance and Deviation (N&D) Report No. 014.
7. In addition to qualifications tests that were performed in accordance with Regulatory Guides 1.9 and 1.108, and IEEE Standard 387, describe all other onsite tests performed on your DGs.

Response

The onsite test program for the standby diesel generator is described in the RBS Diesel Generator Program Plan dated December 21, 1984 from J. E. Booker (GSU) to H. R. Denton (NRC) (GSU Letter No. RBG-19762).

8. In addition to any deficiency reports already provided to the NRC, summarize and describe problems encountered and resolved during installation and preliminary operation of the DGs. During this period, were any unusual or abnormal operations observed such as excessive vibration, noise, etc., and how were these conditions corrected. Provide a detailed summary of the complete operating histories of your DGs.

Response

This response will be provided separately by April 19, 1985. *JE*

9. Tabulate, compare and discuss differences in present actual DG loading to estimated loads included in the procurement specifications. Identify the magnitude of the increased load (if any) on the DGs and describe how the increased loading affects the DG capability with regard to reserve margin.

Response

The loading requirement for the standby diesel generators is provided in a letter dated February 6, 1985 from J. E. Booker (GSU) to H. R. Denton (NRC) (GSU Letter No. RBG-20086). The expected maximum service loads, tabulated below, is less than the estimated loads in the original procurement specification No. 244.700 which specified a minimum continuous rating of 3500 kw.

DELETE  
AND  
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WITH  
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Insert 1 For Item 8

The response to this Item is provided in Enclosures 1 through 3.

Response

The connecting rod bearing shells were inspected by visual, liquid penetrant, dimensional, radiographic, and eddy current methods. The inspections performed and the results are documented in the Phase II Design Review and Quality Revalidation Report for Component No. 03-340B submitted in a letter dated December 24, 1984 from J. C. Deddens (GSU) to H. R. Denton (NRC) (GSU Letter No. RBG-19766). The detailed inspection results and dispositions are presented in Appendix 3 of the RBS Diesel Generator Program Plan as submitted in a letter dated December 21, 1984 from J. E. Booker (GSU) to H. R. Denton (NRC) (GSU Letter No. RBG-19762).

15. Most of the piston skirts in the Shoreham diesels were cracked. Because of a common cylinder design for all TDI diesels, it is presumed that this condition potentially exists on all other TDI diesels. Discuss your plans, including internal inspection or other means to determine the potential or actual existence of such cracking. In your response, indicate whether the design and materials are identical to those in the Shoreham units; if not identify differences. Identify any corrective actions you have taken to date or plan to take.

The staff understands that TDI has a piston design modification to correct the above problem. Are you aware of this and has TDI transmitted this service information to you?

Response

The piston skirts were replaced with the improved "AE" piston skirt. The AE pistons were inspected before installation as described in the River Bend Station DR/OR Report (see the letter from J. C. Deddens (GSU) to H. R. Denton (NRC) dated 12/24/84, GSU Letter No. RBG-19766) and the River Bend Station Diesel Generator Program Plan (see the letter from J. E. Booker (GSU) to H. R. Denton (NRC) dated 12/21/84, GSU Letter No. RBG-19762) for Component No. 03-341.

TDI informed GSU of the availability of the improved piston by letter, which is included in the response to Question 4.

16. What maintenance and/or operating practices have you developed to assure optimum reliability of your diesel generators at your plant?

Response

The RBS maintenance and operating practices are being reviewed to incorporate RBS-specific revisions and assure optimum reliability of the Standby Diesel Generators. An additional submittal will be made by April 19, 1985 to address this question.

DELETE  
AND  
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WITH  
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2



Insert 2 For Item 16

This response was provided in the letter from Mr. J. E. Booker (GSU) to Mr. H. R. Denton (NRC) dated April 22, 1985 (GSU Letter No. RBG-20,790).

## ENCLOSURE 1

### I. Summary of Operating History

Operation of the standby diesel generators at the TDI factory is provided in the response to Question of the Request for Additional Information dated December 29, 1983 (see letter from J. E. Booker (GSU) to H. R. Denton (NRC) dated April 11, 1985 (GSU Letter No. RBG-20685)).

Prior to operation at River Bend, the standby diesel generators were disassembled for preservice inspection and rebuilding as described in RBG-19762 dated December 21, 1984. The confirmatory testing described in Section 2.5 of RBG-19762 was then performed. Then the preoperational tests described in FSAR Section 14.2.12.1.36 were performed.

Detailed operational descriptions for each standby diesel generator at River Bend Station since the first start on October 18, 1984 are included as Enclosure 3.

### II. Problems Encountered and Resolved

Problems encountered and resolved during installation, pressure inspection, rebuilding, confirmatory testing and preoperational testing through March 28, 1985 are described below. Problems previously identified and reported to the NRC under 10CFR50.55(e) are listed in Enclosure 2.

#### II.A. Installation

The foundation bolts supplied with the engine were found to be too short for full thread engagement requiring modification of the engine skid and reduction in depth of the grout pocket.

Numerous parts were missing or short shipped including tubing supports and other components.

Skid piping spools could not be bolted up as manufactured requiring cutting and welding in the field to fit the flanges and support points.

Lube oil and jacket water heat exchangers were corroded internally and required cleaning.

Numerous arc strikes were found inside the air start receiver tanks requiring repair in the field.

Other problems encountered and resolved during installation are typical of other components of this type and are described in documentation on file at River Bend.

## II.B. Preservice Inspection and Rebuilding

Results of preservice inspections are described in Sections 2.3 and 2.4 of RBG-19762, dated December 21, 1984.

## II.C. Confirmatory Testing

### 1. Diesel Generator A

During the initial start, slow idle, no load operation of the diesel several problems were encountered and resolved.

- During the initial start attempts, the engine tripped on low oil pressure. The flow of oil was partially blocked by misalignment of valves at the inlet and outlet of the duplex oil strainer. The valves were realigned and the handles removed to prevent recurrence.
- Initial attempts to adjust the governor speed setting revealed the governor speed adjustment knob was disconnected from its linkage. This condition was corrected by the Woodward representative.
- Spurious low jacket water trips were experienced due to blockages in pneumatic lines and were corrected by blowing the lines with air. During the initial break-in period with the engine loaded to the grid, the following problems were encountered and resolved.
- High vibration was observed in the piping from the engine jacket water outlet breeder to the standpipe and corrected by an additional support.
- A number of instrument tubing supports were added to reduce vibration to acceptable levels.
- Cylinder firing pressures and fuel injector pump rack settings (fuel flow) were observed to be higher than recorded in the factory tests at 75 percent power. Test instrumentation was added to verify the electrical load and power output was limited to 3000 kw (indicated by any of three sets of instrumentation) until the problem was corrected. Subsequent investigation revealed an 11.9 percent error in the panel wattmeter. This condition was corrected by changing the scale on the wattmeter.
- Spurious jacket water high temperature trips were experienced due to radiant heat transmitted to the

temperature sensor from the turbocharger and were corrected by insulating the sensor.

- Engine load at 75 percent power was not steady varying by approximately 100 kw. Investigation revealed a faulty voltage regulator which was replaced.
- Spurious turbocharger vibration trips were experienced because of loose bolts which attached the trip unit to the turbocharger bracket. The bolts were tightened to correct the problem.
- The turbocharger exhaust expansion joint was found to have cracked during initial operation at 100 percent power. The expansion joint was replaced with a slip joint which has given satisfactory service.

During the 24 hour test at full power, the following problem was encountered. Some of the bolts which attach the exhaust stacks to the cylinder heads were found to be loosening and breaking from fatigue. The engine was shut down after 13 hours to correct the problem. The bolts were found to have been too short, and loosened because of side loads and inadequate thread engagement. The bolts were replaced with longer ones of material more suitable for high temperature service. Cockwashers were added to further prevent loosening. The problem has not recurred.

## 2. Standby Diesel Generator B

Problems experienced on standby diesel generator A were investigated and corrected on standby diesel generator B, and the initial operation of diesel generator B was relatively trouble free.

The most significant problem experienced was leakage of the fuel oil backpressure regulating valve (not supplied by TDI). This failure recurred during preoperational testing and the valves in both diesels have been replaced with a valve more suitable for the application.

## II.D. Preoperational Testing

### 1. Standby Diesel Generator A

- The diesel exhaust slip joint installed during confirmatory testing was found to be inadequately baffled. The initial design permitted accumulation of liquid combustion products in the packing during

low load operation which can burn during subsequent high load operation with higher exhaust temperatures. During operation on 10/21/84 flames appeared on the external surface of the packing which were readily extinguished with no damage to plant equipment. The slip joint was removed and reworked to include a baffle and improved packing which precludes accumulation of liquid.

- A fuel leak was noticed in the fuel oil waste header requiring shutdown for repair.
- The fuel oil waste eductor was found not to be performing properly allowing waste fuel to overflow to the storage tank. This problem has been corrected by repiping the eductor discharge.

2. Standby Diesel Generator B

- Failures of the fuel oil backpressure valve recurred during preoperational testing of diesel B (not TDI supplied). As noted previously this valve has been replaced.

ENCLOSURE 2

Problems Reported To The  
NRC Under 10CFR50.55(e)

<u>GSU Deficiency Report No.</u>	<u>Brief Description</u>	<u>Latest GSU Correspondence Reference</u>
21	Improperly Manufactured Delaval Valve Springs (Reportable)	RBG-11398 10/14/81 (Closed)
61	Starting Air Valve Assembly (Air Start Capscrews) (Not Reportable)	RBG-12846 6/18/82 (Closed)
70	Improper Material In Governor Coupling Drive (Reportable)	RBG-13270 8/27/83 (Closed)
80	Potentially Defective Piston Castings (Heat Treatment Of AN Pistons) (Reportable)	RBG-16210 10/6/83 (Closed)
89	RTE Switchgear Problem in Delaval Diesel Generator Panels (Not Reportable)	RBG-17418 3/26/84 (Closed)
140	Engine Mounted Fuel Line on TDI Generator (Potential)	RBG-19264 10/26/84 (Closed)
163	Diesel Generator Key Set Screw (Reportable)	RBG-18126 7/2/84 (Closed)
170	Fuel Oil Pipe Support on TDI Diesel (Reportable)	RBG-17504 4/5/84 (Closed)
171	Shaw Thermostatic Flow Control Valves (Reportable)	RBG-18228 7/16/84 (Closed)
172	Rupture of Jacket Water Blanket on Standby Diesel Generator (Not Reportable)	RBG-18170 7/6/84 (Closed)



178	Turbocharger Prelube Connection, TDI Diesel (Not Reportable)	RBG-19761 12/21/84 (Closed)
194	Jacket Water Pump, TDI Diesel (Reportable)	RBG-19015 9/24/84 (Closed)
202	Turbocharger Thrust Bearings, TDI Diesel (Reportable)	RBG-19405 11/9/84 (Closed)
203	Arc Strikes in Air Receiver Tanks, TDI Diesel (Not Reportable)	RBG-19756 12/20/84 (Closed)
220	Linear Indications in Valve Seats of TDI Diesels (Reportable)	RBG-19813 1/2/85 (Closed)
221	Fire Deck Wall Thickness of TDI Diesels (Reportable)	RBG-19760 12/19/84 (Closed)
227	Rocker Arm Pushrod Sockets in TDI Diesels (Reportable)	RBG-19853 1/9/85 (Closed)
228	Linear Indications in Valve Stems in TDI Diesels (Reportable)	RBG-19830 1/7/85 (Closed)
230	Air Start Valve Seat in TDI Diesels (Reportable)	RBG-19735 12/19/84 (Closed)
231	Out-Of-Round Cylinders in TDI Diesel (Reportable)	RBG-19832 1/3/85 (Closed)
236	Piston Wrist Pins in TDI Diesel (Not Reportable)	RBG-19913 1/17/85 (Closed)
241	Voltage Regulator, TDI Diesel A (Not Reportable)	RBG-19312 10/26/84 (Closed)
256	TDI Diesel Wat & Var Meterscales (Reportable)	RBG-19485 11/19/84 (Closed)

262	DG Starting & Field Flush Circuit (Not Reportable)	RBG-19692 12/10/84 (Closed)
265	Shielded Cable Conductors in Standby Diesel Generators (Reportable)	RBG-20169 2/14/85 (Closed)
288	Air Filter Bowl on TDI Diesels (Reportable)	RBG-20526 4/4/85 (Open)
291	Crankshaft Plug on TDI Diesels (Reportable)	RBG-20746 4/17/85 (Closed)
298	Starting Air Check Valves - TDI Diesels (Potential)	RBG-20561 3/28/85 (Open)
299	Fuel "Oil" Back-Pressure Valve - TDI Diesels (Potential)	RBG-20560 3/28/85 (Open)

ENCLOSURE 3

The following diesel generator test information is a chronological listing of the Confirmatory and Preoperational Start Tests for both standby diesel generators at River Bend Station.

126 starts have been performed on standby diesel generator "A" (50 Confirmatory and 76 Preoperational) while 95 starts have been performed on standby diesel generator "B" (25 Confirmatory and 70 Preoperational). The response "NA" stands for not applicable.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		1
DATE		8-18-84 @ TIME: 0305
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow speed idle
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	As long as needed
	ACTUAL	20 seconds approximately
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Low lube oil pressure trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Engine speed too low - speed controlled by manual lever on fuel rack (120 RPM)
CORRECTIVE ACTION		Checked lube oil trip and adjusted lube oil regulator valve

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		2
DATE		8-18-84 @ TIME: 0312
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow speed idle
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	As long as needed
	ACTUAL	40 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped on overspeed - approximately 550 RPM
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Engine speed under manual control
CORRECTIVE ACTION		<ul style="list-style-type: none"> <li>- Checked lube oil trip and overspeed trips</li> <li>- Checked pneumatic logic panels for problems</li> </ul>

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		3
DATE		8-18-84 @ TIME: 1531
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow idle speed
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED ACTUAL	As long as needed 40 seconds
NORMAL SHUTDOWN		Tripped on low lube oil pressure
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Governor speed control knob found to be disconnected from leakage
CORRECTIVE ACTION		Governor knob reconnected by Woodward representatives



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		4
DATE		8-18-84 @ TIME: 1705
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow idle speed
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	As long as needed
	ACTUAL	1 minute
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious trip by electrical generator trip 86 backup relay
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Testing secured to analyze cause of trips
CORRECTIVE ACTION		<ul style="list-style-type: none"> <li>- Electrical circuits checked and found to be satisfactory</li> <li>- Recalibrated lube oil pressure switches</li> <li>- Rechecked valve alignment and found lube oil duplex strainer inlet and outlet valves were misaligned to restrict (but not block) lube oil flow. Valves were returned to proper alignment and the handles were removed to prevent future inadvertent misalignment.</li> </ul>

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		5
DATE		8-19-84 @ TIME: 1144
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow idle speed
ENGINE RESPONSE		Satisfactory - Woodward governor in control
RUN DURATION	EXPECTED	As long as needed
	ACTUAL	4 minutes 23 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Jacket water pressure trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Jacket water low pressure was attributed to low engine speed. Engine speed in test procedure was changed to between 420 and 450 RPM during the adjustment of the Woodward governor for slow idle speed.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		6
DATE		8-19-84 @ TIME: 1229
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial start, slow idle, no load) to adjust governor for slow idle speed
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	NA
	ACTUAL	Approximately 2 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped jacket water pressure low
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Installed local pressure gauges in jacket water lines. Checked pressure lines to gauge board panel 3A. Found blockage in pneumatic line and corrected blockage.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER	7	
DATE	8-19-84 @ TIME: 1540	
TECHNICAL CONTACT	JW BAKER	
TEST OBJECTIVE	Manufacturer recommended test (initial start, slow idle, no load)	
ENGINE RESPONSE	Satisfactory	
RUN DURATION	EXPECTED	As long as needed
	ACTUAL	15 minutes
NORMAL SHUTDOWN	Diesel normally shut down	
ABNORMAL SHUTDOWN	NA	
REPORTED TO NRC	Periodic surveillance of test and test logs throughout entire run	
REMARKS	NA	
CORRECTIVE ACTION	To make routine inspection of crankcase and bearings after initial run. Results normal, "everything looks good."	

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		8
DATE		8-19-84 @ TIME: 1800
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial 450 RPM, no load) to adjust settings on Woodward governor, and their set overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	30 minutes to allow engine to warm up
	ACTUAL	40 minutes
NORMAL SHUTDOWN		Planned overspeed trip setting - normal shutdown after overspeed test
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		9, 10, 11 & 12
DATE		8-19-84 @ TIME: 1840
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial 450 RPM, no load operation) to set overspeed of Woodward governor
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	20 minutes
	ACTUAL	20 minutes
NORMAL SHUTDOWN		Planned overspeed trip
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Restored Woodward governor electrical connectors following over speed trip settings
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		13
DATE		8-19-84
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (initial 450 RPM, no load operation) for verification of generator differential shutdown (86GB)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	NA
	ACTUAL	NA
NORMAL SHUTDOWN		By pushing cutout switch as per step 7.2.18.3A of procedure 1-SST-09A-1
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		14
DATE		8-19-84
TECHNICAL CONTACT		JW BAKER
TEST OBJECTIVE		Manufacturer recommended test (450 RPM, no load operation) for verification of generator differential shutdown (86GP)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	NA
	ACTUAL	NA
NORMAL SHUTDOWN		Scheduled by pushing cutout switch as per step 7.2.19.3A of procedure 1-SST-09A-1
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Remove jumpers

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		15
DATE		8-20-84 @ TIME: 0047
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Manufacturer recommended test for verification of generator phasing
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	30 minutes
	ACTUAL	30 minutes
NORMAL SHUTDOWN		As per step 7.3.6.3A of procedure 1-SST-09A-1
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Removed dummy breaker from bus

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		16
DATE		8-20-84 @ TIME: 0238
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Manufacturer recommended test for verification of generator rotation
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	30 minutes
	ACTUAL	41 minutes
NORMAL SHUTDOWN		As per step 7.3.9 of procedure SST-09A-1 by pushing stop
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		17
DATE		8-20-84 @ TIME: 0342
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Manufacturer recommended test for diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	25% - 1 hour
	ACTUAL	50% - 1 hour 75% - 2 hours 4 hours, 31 minutes
NORMAL SHUTDOWN		Shut down to analyze vibration and torsigraph cylinder firing pressure data.
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		High vibration observed in piping from jacket water outlet valve to standpipe, and in several sections of instrument tubing. Cylinder firing pressure and fuel rack settings observed to be higher than factory test at 75% power, slight jiggle noted in mechanical governor.
CORRECTIVE ACTION		Evaluation of all data on 25, 50 and 75% run; adjustment of fuel rejection timing in accordance with TDI recommendations. Added test instrumentation for engine KW and KVAR. Replaced governor.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		18
DATE		8-22-84 @ TIME: 1211
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Diesel generator load runs
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	NA
	ACTUAL	Less than 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Unit start failure alarm
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Engine failed to start due to air entrained in fuel lines during adjustment of timing.
CORRECTIVE ACTION		Vent fuel lines of air



**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		19
DATE		8-22-84 @ TIME: 1218
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	5 hours 38 minutes maximum load 75%
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Slight jiggle still present in mechanical governor. Not present when electrical governor is corrected. Temperature control valve sticking. Engine load not steady. Firing pressures indicate need for balancing.
CORRECTIVE ACTION		Jacket water temperature control valve adjusted. Fuel injection timing adjusted on cylinders 2, 6, 7, 8.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		20
DATE		8-23-84 @ TIME: 0242
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 hours at 75%, 4 hours at 100%
	ACTUAL	2 hours, 39 minutes maximum load 75%
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Engine load not steady, varies $\pm$ 100 KW. Exciter phase currents unequal. Fuel rods and electrical power data do not correlate with factory test
CORRECTIVE ACTION		Electrical governor checked and found OK. RTE Delta representative to check out voltage regulator. Additional electrical test instrumentation installed to monitor voltage regulator, generator and KW and KVAR. Maximum indicated load establish as 3000 KW on any of three sets of metering instrumentation, pending resolution of discrepancy in indicated power.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		21
DATE		8-24-84 @ TIME: 2242
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Unsatisfactory - overspeed trip
RUN DURATION	EXPECTED	8 hours
	ACTUAL	Less than 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Overspeed trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset overspeed trip

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		22
DATE		8-24-84 @ TIME: 2246
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and generator load runs
ENGINE RESPONSE		Unsatisfactory - overspeed trip
RUN DURATION	EXPECTED	8 hours
	ACTUAL	Less than 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Overspeed trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset overspeed trip

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		23
DATE		8-24-84 @ TIME: 2250
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulatory diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Unsatisfactory - overspeed trip
RUN DURATION	EXPECTED	8 hours
	ACTUAL	Approximately 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Overspeed trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Readjusted governor

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		24
DATE		8-24-84 @ TIME: 2300
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	Approximately 1 minute
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped 86GB lockout
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Checked all alarms and reset 86GB lockout trip



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		25
DATE		8-24-84 @ TIME: 2312
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	2 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped - 86GB lockout
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Alarm reset - megged generator, checked breaker, found satisfactory

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		26
DATE		8-24-84 @ TIME: 2354
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	2 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped - Reverse power relay tripped - 86GB lockout relay tripped
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Removed reverse power relay, reinstalled reverse power relay after calibration check.

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		27
DATE		8-25-84 @ TIME: 0137
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic checks and diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	53 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		<ul style="list-style-type: none"> <li>- Spurious turbocharger vibration trip</li> <li>- Generator differential relay trip</li> </ul>
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Mounting bolts for turbocharger vibration trip unit found to have loosened.
CORRECTIVE ACTION		Vibration trip unit mounting bolts tightened. Electrical panels checked after shutdown.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		28
DATE		8-25-84 @ TIME: 2003
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic check and diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	38 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Jacket water temperature high trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Adjusted jacket water valves for more cooling. Diesel secured to trouble shoot problems with exciter and voltage regulator. Voltage regulator found defective and replaced. Watt and VAR transducers found to be not properly matched to current transformer, causing watt and VAR measurement error of 11.9 percent lower than actual. Further testing performed using correction factor on indicated power, pending design change to correct gages.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		29
DATE		8-27-84 @ TIME: 1940
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Voltage regulator diagnostic check and diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	1 hour, 36 minutes, maximum load 75%
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious tripped turbocharger vibration trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Fuel rack and electrical power data now consistent with factory tests. Load now steady.
CORRECTIVE ACTION		Trip cleared - adjusted vibration trip

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		30
DATE		8-27-84 @ TIME: 2139
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	1 hour, 50 minutes; 1 hour at 3500 KW
NORMAL SHUTDOWN		Normal shutdown after 100% run
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Data evaluation after generator load run



**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		31
DATE		8-29-84 @ TIME: 1919
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Generator load run and diesel torsigraph test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours
	ACTUAL	3 hours, 20 minutes 5 minutes at 3500KW
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped - High vibration trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Torsigraph data taken at variable speed no load and 450 RPM variable load.
CORRECTIVE ACTION		Reset trip; trip setting not yet adjusted

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		32
DATE		8-29-84 @ TIME: 2243
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Torsiograph and generator load run
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours or as long as needed for data 30 minutes, 20 minutes at 3500 KW
	ACTUAL	
NORMAL SHUTDOWN		Normal shutdown to evaluate data
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		33
DATE		8-31-84 @ TIME: 1840
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Generator 4 hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours at 100% load
	ACTUAL	1 hour, 25 minutes maximum load 50%
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped high vibration trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset trip

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		34
DATE		8-31-84 @ TIME: 2010
TECHNICAL CONTACT		NA
TEST OBJECTIVE		4 hours at 100% load, generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED ACTUAL	4 hours at 100% load 2 hours 10 minutes maximum load 75%
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious trip of high turbocharger vibration trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Test instrumentation installed on turbocharger to monitor vibration
CORRECTIVE ACTION		Reset trip

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		35
DATE		8-31-84 @ TIME: 2221
TECHNICAL CONTACT		NA
TEST OBJECTIVE		4 hours at 100% load, diesel generator load runs
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours at 100% load
	ACTUAL	4 hours, 55 minutes, 4 hours at 100% load
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		High vibration of exhaust expansion joint. Bellows found cracked.
CORRECTIVE ACTION		Conduct manufacturer recommended internal inspections as scheduled (satisfactory).

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		36
DATE		9-1-84 @ TIME: 0554
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Record diesel engine cold compression pressures
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED ACTUAL	As long as needed for readings; no load 35 minutes
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Engine shutdown for expansion joint repair



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		37
DATE		9-6-84 @ TIME: 1720
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Set turbocharger vibration trip: Engineering evaluation of expansion joint repair. 24 hour run at 100% load.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	30 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious trip jacket water outlet temperature high
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Support rods added to expansion joint prior to test to provide bracing
CORRECTIVE ACTION		Reset trip - adjusted valves

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		38
DATE		9-6-84 @ TIME: 1806
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24-hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 minutes
	ACTUAL	Approximately 1 minute
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious trip - jacket water out temperature high
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset trip - adjusted valves

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		39
DATE		9-6-84 @ TIME: 1810
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24-hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours at 100% load
	ACTUAL	20 minutes, 10 minutes at 100% load
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Spurious trip high jacket water out
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset trip; placed insulation over jacket water temperature sensing device to prevent spurious trips caused by radiant heat from turbocharger.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		40
DATE		9-6-84 @ TIME: 1835
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24-hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED ACTUAL	24 hour run at 100% load 6 hours 13 minutes
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		High vibration of exhaust expansion joint support rod fix unsuccessful.
CORRECTIVE ACTION		Expansion joint vendor representative called in to investigate.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		41
DATE		9-7-84 @ TIME: 1600
TECHNICAL CONTACT		NA
TEST OBJECTIVE		To evaluate expansion joint repair 24-hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour or less
	ACTUAL	1 hour 1 minute 30 minutes at 100% load
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		High vibration in exhaust expansion joint
CORRECTIVE ACTION		Review data - Redesign started of exhaust expansion joint. Expansion joint replaced with slip joint and packing (temporary). Expansion joint determined to be unsuitable for the application.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		42
DATE		9-12-84 @ TIME: 1146
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Engineering evaluation of repair
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour or less as needed
	ACTUAL	57 minutes 30 minutes at 100% load
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Exhaust slip joint satisfactory
CORRECTIVE ACTION		Review data



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		43
DATE		9-14-84 @ TIME: 1128
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24-hour run at 100% load
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	24-hours at 100% load
	ACTUAL	Approximately 1 minute
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Overspeed trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Readjusted Woodward governor speed settings

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		44
DATE		9-14-84 @ TIME: 1134
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% Load
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	Approximately 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped overspeed
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset overspeed trip

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		45
DATE		9-14-84 @ TIME: 1136
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% load
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	Approximately 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped on fail to start
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset overspeed trip

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		46
DATE		9-14-84 @ TIME: 1137
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% load
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	24 minutes
	ACTUAL	Approximately 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped unit start
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Opened test cocks - air rolled engine reset trips

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		47
DATE		9-14-84 @ TIME: 1149
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% load
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	Approximately 20 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Tripped overspeed
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Reset speed setting on governor

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**CONFIRMATORY TEST PHASE**

START NUMBER		48
DATE		9-14-84 @ TIME: 1156
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	12 hours 59 minutes
NORMAL SHUTDOWN		Normal Shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Shutdown to repair and replace bolts on exhaust manifold where vibrated loose
CORRECTIVE ACTION		Replace bolts with a high grade bolt



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER	49
DATE	9-15-84 @ TIME: 1901
TECHNICAL CONTACT	NA
TEST OBJECTIVE	24 hour run at 100% load
ENGINE RESPONSE	Unsatisfactory
RUN DURATION	EXPECTED ACTUAL
	24 hours Approximately 20 seconds
NORMAL SHUTDOWN	NA
ABNORMAL SHUTDOWN	Failure to start
REPORTED TO NRC	Periodic surveillance of test and test logs throughout entire run
REMARKS	NA
CORRECTIVE ACTION	Vented fuel oil lines of air.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
CONFIRMATORY TEST PHASE

START NUMBER		50
DATE		9-15-84 @ TIME: 1910
TECHNICAL CONTACT		NA
TEST OBJECTIVE		24 hour run at 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	24 hours 40 minutes
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		24 hour un at 100% load completed satisfactorily.
CORRECTIVE ACTION		40 minutes used to set vibration trips during engine run after 24 hour run.

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		51
DATE		9-7-84
TECHNICAL CONTACT		Otis Newsom Wayne Leonard
TEST OBJECTIVE		Grooming panels & associated circuits
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour & 5 minutes
NORMAL SHUTDOWN		Normal
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		No
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER	52	
DATE	10-19-84	
TECHNICAL CONTACT	Wayne Leonard Otis Newsom	
TEST OBJECTIVE	7.9.9 of procedure 1-PT-309-1	
ENGINE RESPONSE	Unsatisfactory	
RUN DURATION	EXPECTED ACTUAL	Engine started unexpectedly 30 seconds
NORMAL SHUTDOWN	Yes	
ABNORMAL SHUTDOWN	No	
REPORTED TO NRC	No	
REMARKS	Engine started because of air trapped between check valve and engine air start solenoid valve.	
CORRECTIVE ACTION	Bleed down control panel during maintenance mode.	

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		53
DATE		10/21/84
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Grooming test of engine to check rework
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		Flames appeared at exhaust expansion joint opening into exhaust stack.
REPORTED TO NRC		Yes
REMARKS		Expansion joint designed and manufactured by S&W needs work as flames or flammable material can get into engine room
CORRECTIVE ACTION		Rework expansion joint

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		54
DATE		10/26/84
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Groom engine after rework of voltage regulator and circuits. Also expansion joint in exhaust line
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	30 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		Expansion joint still not functioning properly. Voltage regulator and associated circuits vendor present
CORRECTIVE ACTION		Rework expansion joint



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		55
DATE		10-31-84
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Manufacturer recommended test for verification of generator rotation
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	10 minutes
NORMAL SHUTDOWN		No
ABNORMAL SHUTDOWN		Tripped on jacket water high temperature
REPORTED TO NRC		No
REMARKS		Trip misadjusted
CORRECTIVE ACTION		Adjust trip

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		56
DATE		10/31/84
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Groom engine after rework
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	10 minutes
NORMAL SHUTDOWN		No
ABNORMAL SHUTDOWN		Tripped on high jacket water temperature
REPORTED TO NRC		No
REMARKS		Trip misadjusted
CORRECTIVE ACTION		Adjust trip

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		57
DATE		10-31-84
TECHNICAL CONTACT		Otis Newsom Wayne Leonard
TEST OBJECTIVE		Groom engine after rework
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	30 minutes @ 100% (3500 KW)
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		Fuel leak in waste fuel oil header stopped engine for safety
CORRECTIVE ACTION		Repair leak in fuel oil header

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		58
DATE		11-2-84
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		To prove waste header eductor not performing properly and check controls in control room
ENGINE RESPONSE		Yes
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 5 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		Hook up waste header after proving storage tank contamination coming from waste header
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		59
DATE		11/3/84
TECHNICAL CONTACT		Wayne Leonard
TEST OBJECTIVE		1-PT-309-1 step 7.12
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 hour
	ACTUAL	2 hours 50 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		60
DATE		11/3/84
TECHNICAL CONTACT		Wayne Leonard
TEST OBJECTIVE		1-PT-309-1 Step 7.12.19
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	4 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		None
CORRECTIVE ACTION		None



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		61
DATE		11-3-84 @ TIME: 1857
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Prepare governor
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	15 minutes
	ACTUAL	15 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		Preparing governor to allow overspeed trip setting/check
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		62
DATE		11/3/84 @ TIME: 2016
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Set overspeed trip and restore governor to normal operation
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes (on overspeed)
ABNORMAL SHUTDOWN		Overspeed trip
REPORTED TO NRC		Yes
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		63
DATE		11-3-84 @ TIME: 2025
TECHNICAL CONTACT		Otis Newsom Wayne Leonard
TEST OBJECTIVE		Recheck overspeed trip function
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Opened pneumatic line to overspeed trip valve
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		Yes
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		64
DATE		11-3-84 @ TIME: 2218
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Check vibration trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Opened pneumatic lines to vibration trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No. NRC monitoring engine operation by periodic observations
REMARKS		None
CORRECTIVE ACTION		None

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		65
DATE		4-4-84 @ TIME: 1104
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Checking panel functions
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour 55 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		66
DATE		11/4/84 @ TIME: 1356
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Test, low lube oil pressure to turbo trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	Misfire engine did not start
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		No
REMARKS		Operator Error - did not press start button firmly
CORRECTIVE ACTION		Instructed operator



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER	67	
DATE	11-4-84	
TECHNICAL CONTACT	Wayne Leonard Otis Newsom	
TEST OBJECTIVE	Test low lube oil to turbo trip	
ENGINE RESPONSE	Satisfactory	
RUN DURATION	EXPECTED	15 minutes
	ACTUAL	15 minutes
NORMAL SHUTDOWN	Trip low lube oil to turbo	
ABNORMAL SHUTDOWN	Expected	
REPORTED TO NRC	No	
REMARKS	None	
CORRECTIVE ACTION	None	

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		68
DATE		11-4-84 @ TIME: 1557
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test jacket water alarms
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	10 minutes
	ACTUAL	10 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		None
CORRECTIVE ACTION		None

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		69
DATE		11-4-84 @ TIME: 1702
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test jacket water trip low pressure
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Tripped engine by opening pneumatic line to jacket water trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		70
DATE		11-4-84 @ TIME: 1858
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high crank case pressure trips
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine with high crankcase pressure trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		71
DATE		11-4-84 @ TIME: 2004
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high temperature jacket water trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine with high temperature jacket water trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		72
DATE		11-4-84 @ TIME: 2110
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high bearing temperature trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 3 minutes
NORMAL SHUTDOWN		Tripped engine with high bearing temperature trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		73
DATE		11-4-84 @ TIME: 2216
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high lube oil trip (out)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine with high lube oil temperature out trip
ABNORMAL SHUTDOWN		Expected
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		74
DATE		11-5-84 @ TIME: 1452
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		24 hour run @ full load as per procedure 1-PT-309-1 step 7.12.55, also checked full load rejection
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	24 hours and 50 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER	75
DATE	11-6-84 @ TIME: 1545
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE	Test emergency start from control room
ENGINE RESPONSE	Satisfactory
RUN DURATION	EXPECTED ACTUAL
	4 hours 4 hours and 11 minutes
NORMAL SHUTDOWN	Yes
ABNORMAL SHUTDOWN	No
REPORTED TO NRC	Yes
REMARKS	NA
CORRECTIVE ACTION	NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER	76	
DATE	11-6-84 @ TIME: 1952	
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM	
TEST OBJECTIVE	Test local emergency start from panel IEGA-PNL 3A	
ENGINE RESPONSE	Satisfactory	
RUN DURATION	EXPECTED	4 hours
	ACTUAL	4 hours and 3 minutes
NORMAL SHUTDOWN	Yes	
ABNORMAL SHUTDOWN	No	
REPORTED TO NRC	Yes	
REMARKS	NA	
CORRECTIVE ACTION	NA	

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		77
DATE		11-7-84 @ TIME: 0008
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test air start capacity
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		78
DATE		11-7-84 @ TIME: 0011
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		79
DATE		11-7-84 @ TIME: 0014
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 minute
	ACTUAL	1 minute
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		80
DATE		11-7-84 @ TIME: 0035
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 minute
	ACTUAL	1 minute
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		81
DATE		11-7-84 @ TIME: 0045
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		82
DATE		11-7-84 @ TIME: 0036
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		83
DATE		11-7-84 @ TIME: 0045
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		NA
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		84
DATE		11-7-84 @ TIME: 0050
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test 8th start, also load to grid and clean up cylinders
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED ACTUAL	1 hour 1 hour and 10 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		Completed 8 starts on one air system final pressure after 8 start was 90 psig
CORRECTIVE ACTION		NA



**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		85
DATE		11-29-84 @ TIME: 0800
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Inadvertant start
ENGINE RESPONSE		Satisfactory - Engine started
RUN DURATION	EXPECTED ACTUAL	Unexpected 1 minute
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		Engine started because a start signed was latched in panel from outside source when panel air was turned on engine started
CORRECTIVE ACTION		Turn off D.C. circuits in panel when in maintenance mode

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		86
DATE		1-20-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Check governor response to LOCA and loss-of-power loads
ENGINE RESPONSE		Satisfactory - Yes Unsatisfactory - NA
RUN DURATION	EXPECTED	1 hour
	ACTUAL	2 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		87
DATE		1-27-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Governor response for loading sequence on loss of offsite power mini test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	3 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		88
DATE		2-8-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		To check load shed and sequence of DG during simulated accident
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	2 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER	89				
DATE	2-27-85				
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM				
TEST OBJECTIVE	To test load shed & sequence loading of DG to simulated loss of offsite power & LOCA incident, procedure 1-SST-14				
ENGINE RESPONSE	Satisfactory				
RUN DURATION	<table border="1"> <tr> <td>EXPECTED</td> <td>2 hours</td> </tr> <tr> <td>ACTUAL</td> <td>3 hours</td> </tr> </table>	EXPECTED	2 hours	ACTUAL	3 hours
EXPECTED	2 hours				
ACTUAL	3 hours				
NORMAL SHUTDOWN	Yes				
ABNORMAL SHUTDOWN	No				
REPORTED TO NRC	Yes				
REMARKS	NA				
CORRECTIVE ACTION	NA				

**TDI EMERGENCY DIESEL GENERATOR NO. 74039**  
**RBS STANDBY DIESEL GENERATOR A**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		90
DATE		3-17-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Testing computer points in switchgear
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 hours
	ACTUAL	2 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74039  
RBS STANDBY DIESEL GENERATOR A  
PREOPERATIONAL TEST PHASE

START NUMBER		91 thru 126
DATE		3-25-85 thru 3-28-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Conduct start reliability test consisting of 35 cold starts in sequence without failure
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	NA
	ACTUAL	NA
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		Started engine 35 times from cold jacket water temperature of less than 160°F, ran one hour per start @ 2000 KW or more
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		1
DATE		11-6-84 @ TIME: 0053
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 initial start (idle run, no load)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	5 minutes
	ACTUAL	30 seconds
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Abnormal low pressure air trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Air pressure was too low, pressure restored and trip cleared

**TDI EMERGENCY DIESEL GENERATOR NO. 74040**  
**RBS STANDBY DIESEL GENERATOR B**  
**CONFIRMATORY TEST PHASE**

START NUMBER		2
DATE		11-6-84 @ TIME: 0118
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 initial diesel startup (idle run, no load)
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	15 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Abnormal group II trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Leak in air tubing
CORRECTIVE ACTION		Air leaks repaired in pneumatic tubing fittings

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		3
DATE		11-6-84 @ TIME: 0310
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 diesel run (idle speed, no load)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	15 minutes
	ACTUAL	16 minutes
NORMAL SHUTDOWN		Normal operator shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		4
DATE		11-6-84 @ TIME: 0430
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 object test, overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	5 minutes
	ACTUAL	22 minutes
NORMAL SHUTDOWN		Overspeed trip (normal)
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal check of overspeed trip
CORRECTIVE ACTION		Overspeed trip setting changed to 13.4

**TDI EMERGENCY DIESEL GENERATOR NO. 74040**  
**RBS STANDBY DIESEL GENERATOR B**  
**CONFIRMATORY TEST PHASE**

START NUMBER		5
DATE		11-6-84 @ TIME: 0457
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 test of overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	3 minutes
NORMAL SHUTDOWN		Overspeed trip (normal)
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Overspeed worked
CORRECTIVE ACTION		Reset



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		6
DATE		11-6-84 @ TIME: 0503
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 test of overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	4 minutes
NORMAL SHUTDOWN		Overspeed trip (normal)
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Overspeed trip worked
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		7
DATE		11-6-84 @ TIME: 0509
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 test of overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	10 minutes
NORMAL SHUTDOWN		Normal overspeed
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Overspeed trip worked
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		8
DATE		11-6-84 @ TIME: 0524
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 overspeed trip test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	3 minutes
NORMAL SHUTDOWN		Normal
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Overspeed trip worked
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		9
DATE		11-6-84 @ TIME: 0527
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 overspeed trip test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	3 minutes
NORMAL SHUTDOWN		Overspeed trip (normal)
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal overspeed
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		10
DATE		11-6-84
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 overspeed trip test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	5 minutes
NORMAL SHUTDOWN		Normal overspeed trip
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal overspeed trip
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		11
DATE		11-6-84 @ TIME: 0534
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 overspeed trip test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	4 minutes
NORMAL SHUTDOWN		Normal overspeed trip
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal overspeed trip
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		12
DATE		11-6-84 @ TIME: 0541
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 overspeed trip test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	12 minutes
	ACTUAL	12 minutes
NORMAL SHUTDOWN		Normal operator shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Shutdown normal by operator
CORRECTIVE ACTION		Reset

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		13
DATE		11-6-84 @ TIME: 0624
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 check out overspeed trip test
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	1 minute
NORMAL SHUTDOWN		Normal overspeed
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Checking out cables between mechanical & electrical governor
CORRECTIVE ACTION		Governor setting changed to 450

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		14
DATE		11-6-84 @ TIME: 0632
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 test of 86 relay trip capabilities
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	3 minutes
	ACTUAL	Less than five minutes
NORMAL SHUTDOWN		Normal- part of test of 86 relay
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal part of procedures
CORRECTIVE ACTION		Removed jumpers from term 9 & 10 of TB 104

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		15
DATE		11-6-84 @ TIME: 0638
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 test of 86 relay relay trip capabilities
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 minute
	ACTUAL	1 minute
NORMAL SHUTDOWN		Normal trip by jumpering 86 relay by procedure
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Shutdown part of procedure
CORRECTIVE ACTION		Remove jumper at 86 relay

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		16
DATE		11-6-84 @ TIME: 1041
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 phasing check per procedure
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	39 minutes
	ACTUAL	39 minutes
NORMAL SHUTDOWN		Normal shutdown
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Normal part of procedure
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		17
DATE		11-6-84 @ TIME: 1254
TECHNICAL CONTACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 phasing checkout per procedure
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	10 to 15 minutes
	ACTUAL	Less than 1 minute
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		Diesel start on inadvertent LOCA signal from control room
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Operator stopped diesel - manual stop
CORRECTIVE ACTION		Lifted leads from TB 11-11, ACB 27 locked out to prevent emergency starts at this time in procedure



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		18
DATE		11-6-84 @ TIME: 1312
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 phasing
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	20 minutes
	ACTUAL	20 minutes
NORMAL SHUTDOWN		Normal stop
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Lube oil high filter differential pressure alarm
CORRECTIVE ACTION		Changed filters

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		19
DATE		11-6-84 @ TIME: 1427
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 loading of generator per procedure
ENGINE RESPONSE		Unsatisfactory - blown fuse indication governor not steady
RUN DURATION	EXPECTED	1 hour
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Normal precaution check blown fuse indication
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		NA
CORRECTIVE ACTION		Adjusted governor. Blown fuse indication - no action normal alarm with generator breaker open. Control room tests caused a generator ground fault alarm

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		20
DATE		11-6-84 @ TIME: 1700
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 load testing 25% - 50%
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	8 hours
	ACTUAL	2 hours, 7 minutes
NORMAL SHUTDOWN		Normal shutdown due to fuel oil leak
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		PCV 25 fuel oil regulating valve leaking oil
CORRECTIVE ACTION		No spare parts - pulled and plugged PCV25B body set to regulate fuel flow manually

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		21
DATE		11-8-84 @ TIME: 1454
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 load test of diesel-75%
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	6 hours
	ACTUAL	1 hour 53 minutes
NORMAL SHUTDOWN		NA
ABNORMAL SHUTDOWN		86B relay generator fault trip
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Investigated - Could not find a problem. Assumed automatic relays arced the contacts as the probable cause
CORRECTIVE ACTION		In depth investigation

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		22
DATE		11-6-84 @ TIME: 1840
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 continue load testing
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	6 hours
	ACTUAL	8 minutes
NORMAL SHUTDOWN		Normal
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Voltage regulator needs adjustment
CORRECTIVE ACTION		Vendor made adjustment to voltage regulator

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		23
DATE		11-8-84 @ TIME: 1905
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 load test 75% - 100%
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	6 hours
	ACTUAL	6 hours 31 minutes 4 hours at 100% load
NORMAL SHUTDOWN		Normal as part of procedure
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Vendor inspecting engine, found satisfactory
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		24
DATE		11-9-84 @ TIME: 0404
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		Procedure 1-SST-09B-1 load test cold compression test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	30 minutes
	ACTUAL	30 minutes
NORMAL SHUTDOWN		Normal shutdown in procedure
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Compression reading taken during this run
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
CONFIRMATORY TEST PHASE

START NUMBER		25
DATE		11-9-84 @ TIME: 0441
TECHNICAL CONTRACT		NA
TEST OBJECTIVE		1-SST-09B-1 100% load test 24 hour run
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	24 hours
	ACTUAL	24 hours, 11 minutes
NORMAL SHUTDOWN		Normal
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Periodic surveillance of test and test logs throughout entire run
REMARKS		Turbocharger mounting bolts loosened; retightened without requiring shutdown. Procedure completed
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER	26	
DATE	12-27-84 @ TIME: 1030	
TECHNICAL CONTACT	Wayne Leonard Otis Newson	
TEST OBJECTIVE	Grooming engine and panel checking parallel operation to grid	
ENGINE RESPONSE	Unsatisfactory, electrically engine ok	
RUN DURATION	EXPECTED	1 hour
	ACTUAL	3 minutes
NORMAL SHUTDOWN	No tripped on reverse power	
ABNORMAL SHUTDOWN	Yes, operator error tripped engine on reverse power	
REPORTED TO NRC	Yes, D. Chamberlain present	
REMARKS	Instructed operator on proper operation	
CORRECTIVE ACTION	Instruction on operation	

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		27
DATE		12-27-84 @ TIME: 1300
TECHNICAL CONTACT		Wayne Leonard, Otis Newson
TEST OBJECTIVE		Grooming run to check breakers, etc.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	15 minutes
	ACTUAL	20 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		28
DATE		12-27-84 @ TIME: 1534
TECHNICAL CONTACT		Wayne Leonard, Otis Newton
TEST OBJECTIVE		Grooming panels and switchgear test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour 20 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		29
DATE		12-27-84 @ TIME: 1700
TECHNICAL CONTACT		Wayne Leonard, Otis Newson
TEST OBJECTIVE		Grooming panels and switchgear test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour 20 minutes
NORMAL SHUTDOWN		No (expected)
ABNORMAL SHUTDOWN		Shutdown by opening trip line on logic board
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		30
DATE		12-27-84 @ TIME: 1835
TECHNICAL CONTACT		Otis Newsam Wayne Leonard
TEST OBJECTIVE		Set governor
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		31
DATE		12-27-84 @ TIME: 1940
TECHNICAL CONTACT		Wayne Leonard Otis Newsom
TEST OBJECTIVE		Set overspeed trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	5 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		No - expected overspeed
ABNORMAL SHUTDOWN		Engine tripped on overspeed
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		32
DATE		12-27-84 @ TIME: 2014
TECHNICAL CONTACT		Wayne Leonard Otis Newson
TEST OBJECTIVE		Reset governor
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour 6 minutes
NORMAL SHUTDOWN		No
ABNORMAL SHUTDOWN		Opened trip line to turbo vibration trip device and stopped engine
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		33
DATE		12-28-84 @ TIME: 1450
TECHNICAL CONTACT		Wayne Leonard Otis Newton
TEST OBJECTIVE		To test PCV-25B. Back pressure regulator valve in fuel return system which has temporarily repair in place (internals removed and bonnet plugged)
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	10 minutes
	ACTUAL	10 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		PCV 25 is to be repaired when parts arrive, meanwhile use as is
CORRECTIVE ACTION		None at this time

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		34
DATE		12-28-84 @ TIME: 1530
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test operation of PCV-25 procedure
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 57 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		35
DATE		12-28-84 @ TIME: 1724
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Check trips and alarms on turbo oil lines
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minute
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		36
DATE		12-28-84 @ TIME: 1830
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test turbo low oil pressure trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine by opening oil line
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER	37
DATE	4-12-84 @ TIME: 2035
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE	Test oil pressure alarms on turbo
ENGINE RESPONSE	Satisfactory
RUN DURATION	EXPECTED 1 hour
	ACTUAL 1 hour and 1 minute
NORMAL SHUTDOWN	Yes
ABNORMAL SHUTDOWN	No
REPORTED TO NRC	No
REMARKS	NA
CORRECTIVE ACTION	NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		38
DATE		4-12-84 @ TIME: 2146
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Check jacket water alarms and trips
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 4 minutes
NORMAL SHUTDOWN		Tripped engine by opening low pressure jacket water line
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		39
DATE		12-28-84 @ TIME: 2253
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high temperature jacket water out trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine by opening trip line high temperature jacket water out
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		40
DATE		12-29-84 @ TIME: 0003
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high crankcase pressure trip
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Tripped engine by opening trip line E-68
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		41
DATE		12-29-84 @ TIME: 0107
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high bearing temperature trip
ENGINE RESPONSE		Unsatisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 7 minutes
NORMAL SHUTDOWN		Opened trip line E-19, engine did not trip. Stopped engine with stop button
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		Found emergency start signal in panel
CORRECTIVE ACTION		Cleared emergency start signal



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		42
DATE		12-29-84 @ TIME: 0230
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test high bearing tempature trip
ENGINE RESPONSE		Satisfactory
RUN	EXPECTED	1/2 hour
DURATION	ACTUAL	1/2 hour
NORMAL SHUTDOWN		Opened trip line E-19 to trip engine on high bearing tempature trip
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER	43	
DATE	12-29-84 @ TIME: 0240	
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM	
TEST OBJECTIVE	Test high tube oil temperature out trip	
ENGINE RESPONSE	Satisfactory	
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 5 minutes
NORMAL SHUTDOWN	Opened trip line E-18 to trip engine on high lube oil out trip	
ABNORMAL SHUTDOWN	No	
REPORTED TO NRC	NRC periodically monitoring test activity	
REMARKS	NA	
CORRECTIVE ACTION	NA	

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER	44				
DATE	12-29-84 @ TIME: 1330				
TECHNICAL CONTACT	WAYNE LEONARD OTIS NEWSOM				
TEST OBJECTIVE	24 hour full power run @ 0.8 pf				
ENGINE RESPONSE	Satisfactory				
RUN DURATION	<table border="1"> <tr> <td>EXPECTED</td> <td>24 hours</td> </tr> <tr> <td>ACTUAL</td> <td>24 hours and 8 minutes</td> </tr> </table>	EXPECTED	24 hours	ACTUAL	24 hours and 8 minutes
EXPECTED	24 hours				
ACTUAL	24 hours and 8 minutes				
NORMAL SHUTDOWN	Opened breaker for full load rejection test. RPM went to 485. Stopped engine normally.				
ABNORMAL SHUTDOWN	No				
REPORTED TO NRC	No				
REMARKS	NA				
CORRECTIVE ACTION	NA				

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		45
DATE		12-30-84 @ TIME: 1344
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test emergency start from control room and run 4 hours in emergency mode @ 100% load
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours
	ACTUAL	4 hours and 6 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		46
DATE		12-30-84 @ TIME: 1835
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Emergency start from local panel. Run 4 hours in the emergency mode @ 100% 0.8 pf
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	4 hours
	ACTUAL	4 hours and 1 minute
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		47
DATE		12-30-84 @ TIME: 2252
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air capacity start test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	4 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		48
DATE		12-30-84 @ TIME: 2255
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	3 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		49
DATE		12-30-84 @ TIME: 2258
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #3
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		50
DATE		12-30-84 @ TIME: 2302
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #4
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		51
DATE		12-30-84 @ TIME: 2306
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #5
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		52
DATE		12-30-84 @ TIME: 2308
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #6
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		53
DATE		12-30-84 @ TIME: 2311
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #7
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	2 minutes
	ACTUAL	2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		54
DATE		12-30-84 @ TIME: 2314
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Air start capacity test #8 @ 100 psig air pressure. Run engine loaded to clean cylinders
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	30 minutes
	ACTUAL	40 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		55
DATE		1-15-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		OLT for PTO work done on fuel oil and lube oil systems
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		56
DATE		1-25-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Grooming test for engine governor response to Loss-Of-Power & LOCA signals
ENGINE RESPONSE		Satisfactory - Yes Unsatisfactory - NA
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		57
DATE		1-27-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Test governor response to Loss-Of-Power & LOCA
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour plus 30 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA

**TDI EMERGENCY DIESEL GENERATOR NO. 74040**  
**RBS STANDBY DIESEL GENERATOR B**  
**PREOPERATIONAL TEST PHASE**

START NUMBER		58
DATE		2-14-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Grooming test for upcoming procedure AC manually simulated Loss-Of-Power /LOCA test.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
 FBS STANDBY DIESEL GENERATOR B  
 PREOPERATIONAL TEST PHASE

START NUMBER		59
DATE		2-27-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		Load shed and governor response during Loss-Of-Power/LOCA test 1-SST-14
ENGINE RESPONSE		Satisfactory - Yes Unsatisfactory - No
RUN DURATION	EXPECTED	1 hour
	ACTUAL	2 hours
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA



TDI EMERGENCY DIESEL GENERATOR NO. 74040  
 FBS STANDBY DIESEL GENERATOR B  
 PREOPERATIONAL TEST PHASE

START NUMBER		60
DATE		3-12-85 @ TIME: 2130
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM JOHN BUCCO
TEST OBJECTIVE		35 consecutive starts start #1
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 5 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		Leak @ PCV 25 back pressure regulator valve.
CORRECTIVE ACTION		Repair valve before continuing tests.

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		61
DATE		3-17-85 @ TIME: 1050
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM
TEST OBJECTIVE		To complete 35 consecutive start test.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour and 2 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		PCV 25 leaking again. Vendor will repair valve this time. Valve is to be replaced with more reliable type valve as this makes the 4th time valve has failed in service.
CORRECTIVE ACTION		

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		62
DATE		3-21-85 @ TIME: 2240
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM JOHN BUCCO
TEST OBJECTIVE		Continue 35 consecutive start test #3
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		Yes
REMARKS		This was a grooming test and not to be counted in 35 consecutive starts.
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		63
DATE		3-21-85 @ TIME: 2245
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM JOHN BUCCO
TEST OBJECTIVE		Test #3 of 35 consecutive start test.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour
	ACTUAL	1 hour 10 minutes
NORMAL SHUTDOWN		Yes
ABNORMAL SHUTDOWN		No
REPORTED TO NRC		No
REMARKS		NA
CORRECTIVE ACTION		NA

TDI EMERGENCY DIESEL GENERATOR NO. 74040  
RBS STANDBY DIESEL GENERATOR B  
PREOPERATIONAL TEST PHASE

START NUMBER		64 thru 95
DATE		3-22-85 thru 3-25-85
TECHNICAL CONTACT		WAYNE LEONARD OTIS NEWSOM JOHN BUCCO
TEST OBJECTIVE		Complete 35 consecutive start test.
ENGINE RESPONSE		Satisfactory
RUN DURATION	EXPECTED	1 hour each run
	ACTUAL	In excess of 1 hour each run
NORMAL SHUTDOWN		Yes, each time
ABNORMAL SHUTDOWN		NA
REPORTED TO NRC		Yes
REMARKS		NA
CORRECTIVE ACTION		NA